Global Mapper - Tutorials and Beginner Resources

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Users' Manual

The Global Mapper Users' Manual is available [here](#).

YouTube Channel

Global Mapper has an extensive YouTube channel featuring many useful webinars and how-to's. You may find it useful to start with the following webinars:

- [Getting Started With Global Mapper](#) - describes basic functions such a data importation, tools
- [LiDAR Processing in Global Mapper](#) - includes reclassification tools, extracting vector features, creating terrain models.
- [Working With Terrains in Global Mapper](#) - includes instructions on how to generate contours, perform volumetric calculations, slope analysis, etc.

User Forum

A [user forum](#) exists with a catalog of over 8,000 entries.

Tutorial

The Global Mapper website provides a [tutorial for beginners](#). Registration and access to a license are required, but the tutorial is free otherwise.

The contents of the tutorial are listed below:

- **Section 1 - Introduction to the principles of GIS**
    - Importing/accessing data
    - Creating and editing vector features
    - Adjusting the appearance of vector features
    - Working with raster layers

- Querying and filtering data
- The basics of spatial analysis
- Methods for sharing data
- **Section 2 - Generating a terrain surface and creating contours using LiDAR data**
  - LiDAR importing
  - LiDAR editing/processing
  - Data visualization
  - Creating a gridded surface model
  - 3D modeling
  - Shader options
  - Contour generation
- **Section 3 - Creating a thematic map**
  - Creating and managing attribute data
  - Joining attributes from an external file
  - Performing a calculation to create new attributes
  - Applying a shading pattern to reflect recurring text values
  - Applying a shading pattern to reflect numeric values
  - Designing page layout elements including a legend and map title.
  - Printing the map or exporting to a geospatial PDF
- **Section 4 - Rectifying an image file**
  - Importing a base map for rectification
  - Using field-collected ground control for rectification
  - Modifying the projection
  - Choosing a rectification method
  - Adjusting the properties of the rectified map
- **Section 5 - Extracting vector features from a raster layer**
  - Vectorizing a specific color from a topographic map
  - Vectorizing a range of colors to delineate features in from an aerial image
  - Delineating an elevation range from a digital elevation model
  - Outlining areas within a slope angle threshold
- **Section 6 - Creating a watershed model**
  - Creating a drainage network from a digital elevation model
  - Outlining the watershed boundaries for a defined area
  - Adjusting the watershed boundaries based on area and flow variable
  - Creating a water drop analysis model
  - Delineating the catchment area for a defined location

Online URL: https://kb.unavco.org/article/global-mapper-tutorials-and-beginner-resources-827.html